DATASHEET - DILA-XHIC40



Auxiliary contact module, 4 pole, lth= 16 A, 4 N/O, Front fixing, Springloaded terminals, DILA, DILM7 - DILM38



Part no. Catalog No. Alternate Catalog No. EL-Nummer (Norway)	DILA-XHIC40 276534 XTCEXFACC40 4110275
(Norway)	

Delivery program

Accessories Image: Conservation of poles Image: Conservation of c	Auxiliary contact modules with interlocked opposing contacts Switching elements according to EN 50005 Version E combinations correspond to EN 50011 an The DC operated contactor DILA(C)-22 must only b contacts. for standard applications 4 pole Spring-loaded terminals A A A A A A A A	
FunctionNumber of polesConnection techniqueRated operational currentConventional free air thermal current, 1 poleOpenat 60 °CthAC-15220 V 230 V 240 V220 V 230 V 240 V380 V 400 V 415 VIeOpenMounting typeContact sequence	Switching elements according to EN 50005 Version E combinations correspond to EN 50011 an The DC operated contactor DILA(C)-22 must only b contacts. for standard applications 4 pole Spring-loaded terminals A A A A A	
Number of polesIConnection techniqueIRated operational currentIConventional free air thermal current, 1 poleIOpenIat 60 °CIthAC-15I220 V 230 V 240 VIe380 V 400 V 415 VIeContactsN/O = Normally openMounting typeContact sequence	4 pole 5 pring-loaded terminals A 16 A A A	
Connection technique I Rated operational current I Conventional free air thermal current, 1 pole I Open I at 60 °C Ith AC-15 I 220 V 230 V 240 V Ie 380 V 400 V 415 V Ie Mounting type I Contact sequence I	A 16 A 4	
Rated operational currentConventional free air thermal current, 1 poleOpenat 60 °ChhAC-15220 V 230 V 240 V380 V 400 V 415 VIeOcontactsN/O = Normally openMounting typeContact sequence	A 16 A 4	
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AC-15	A 4	
220 V 230 V 240 V Ie 380 V 400 V 415 V Ie Contacts N/0 = Normally open Mounting type Contact sequence		
380 V 400 V 415 V Ie Contacts N/O = Normally open Mounting type Contact sequence		
Contacts Image: Contact sequence N/O = Normally open Image: Contact sequence	A 4	
N/O = Normally open Mounting type Contact sequence		
Mounting type Contact sequence		
Contact sequence	4 N/0	
	Front fixing	
For use with	$-\frac{153}{54} + \frac{153}{64} + \frac{153}{73} + \frac{153}{73} + \frac{153}{74} + $	
	DILA(C) DILM(C)7 DILM(C)9 DILM(C)12 DILM(C)15 DILM(C)17 DILM(C)25 DILM(C)32 DILM(C)32 DILMP20 DILMP20 DILMP20 DILMP45 DILMP45 DILMF14 DILMF14 DILMF14 DILMF14 DILMF14 DILMF14 DILMF14	
Туре	Front mounting auxiliary contact	
Instructions	Interlocked opposing contacts according to IEC/EN auxiliary contact modules, also for the integrated a DILM32 Auxiliary contacts used as mirror contacts accordi F (not N/C late open)	auxiliary contacts of the DILM 7 -
Code number and version of combination		
Distinctive number	80E	
with basic device	DILA(C)-40	
	71	
with basic device	DILA(C)-31	
with basic device	62	

Fechnical data			
General Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			ILC/LIN 00347, VDL 0000, 0L, CSA
AC operated	Operations	6	10
•	•	x 10 ⁶	
DC operated	Operations	x 10 ⁶	10
Component lifespan			
at U _e = 230 V, AC-15, 3 A	Operations	x 10 ⁶	1.3
Maximum operating frequency	Operations/h		9000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 40
Ambient temperature, storage		°C	- 40 - 80
Mounting position			
Mounting position			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Basic unit with auxiliary contact module		g	
N/O contact		g	7
N/C contact		g	5
Degree of Protection			IP20
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Veight		kg	0.057
Ferminal capacities		mm ²	
Screw terminals			
Terminal screw			M3.5
Spring-loaded terminals			
Flexible with ferrule		mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)
Solid or stranded		AWG	18 - 14
Standard screwdriver		mm	0.6 × 3.5
Contacts			
nterlocked opposing contacts within an auxiliary contact module (to IEC 60947-5 Annex L)	5-1		Yes
V/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN i0947-4-1 Annex F)			DILM7 - DILM32
Rated impulse withstand voltage	U _{imp}	V AC	6000
Overvoltage category/pollution degree			111/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	500
Safe isolation to EN 61140			
between coil and auxiliary contacts		V AC	400
between the auxiliary contacts		V AC	400
Rated operational current		А	
Conventional free air thermal current, 1 pole			
at 60 °C	I _{th}	А	16
AC-15			
220 V 230 V 240 V	le	A	4

500.1/	1	٨	15
500 V	l _e	A	1.5
DC current			
2010.00			Switch-on and switch-off conditions based on DC-13, time constant as specified.
DC L/R ≦ 15 ms			
Contacts in series:		A	
1	24 V	A	10
1	60 V	A	6
2	60 V	A	10
1	110 V	A	3
3	110 V	А	6
1	220 V	А	1
3	220 V	А	5
DC L/R ≦ 50 ms			
Contacts in series:		А	
3	24 V	А	2.5
3	60 V	А	1
3	110 V	А	0.5
3	220 V	А	0.25
DC-13 (6xP)			
24 V	le	А	2.5
60 V	l _e	A	1
110 V	l _e	A	0.5
220 V	I _e	A	0.25
Control circuit reliability	Failure rate	λ	<10 ⁻⁸ , < one failure at 100 million operations (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA)
Short-circuit rating without welding			
Short-circuit protection maximum fuse			
500 V		A gG/gL	10
Current heat loss at I _{th}			
AC operated		W	2.6
DC operated		W	2.6
Current heat loss per auxiliary circuit at I_e (AC-15/230 V)		CO	0.16
Rating data for approved types			
Auxiliary contacts			
Pilot Duty			
AC operated			A600
DC operated			P300
General Use			
AC		V	600
AC		A	10
DC		V	250
DC		A	1

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	4
Heat dissipation per pole, current-dependent	P _{vid}	W	0.16
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	60
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

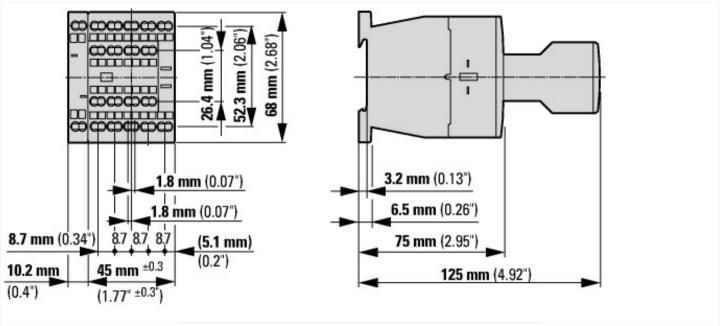
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

	0
	4
	0
	0
А	4
	Spring clamp connection
	Top mounting
	Front fastening
	None
	A

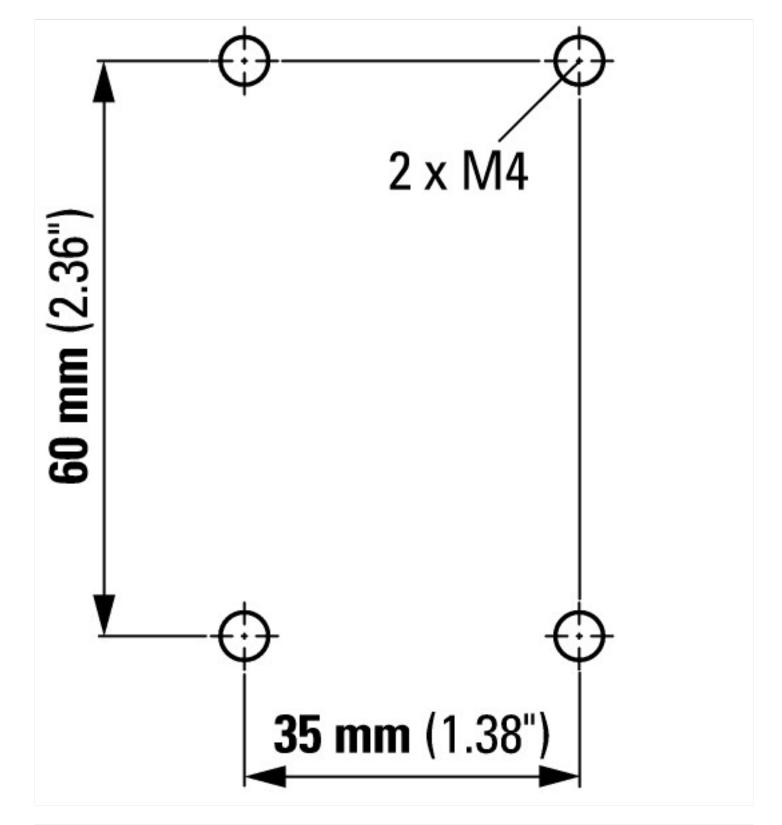
Approvals

Product Standards	IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	012528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Specially designed for North America	No

Dimensions



Contactor with auxiliary contact module



Additional product information (links)

Motor starters and "Special Purpose Ratings" for the North American market	http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf
Switchgear of Power Factor Correction Systems	http://www.moeller.net/binary/ver_techpapers/ver934en.pdf
X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely	http://www.moeller.net/binary/ver_techpapers/ver938en.pdf
Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions	http://www.moeller.net/binary/ver_techpapers/ver944en.pdf
Effect of the Cabel Capacitance of Long Control Cables on the Actuation of Contactors	http://www.moeller.net/binary/ver_techpapers/ver949en.pdf
Switchgear for Luminaires	http://www.moeller.net/binary/ver_techpapers/ver955en.pdf
Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts	http://www.moeller.net/binary/ver_techpapers/ver956en.pdf
The Interaction of Contactors with PLCs	http://www.moeller.net/binary/ver_techpapers/ver957en.pdf
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf